

REVISED VERSION

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
27 October 2005 (27.10.2005)

PCT

(10) International Publication Number  
**WO 2005/100112 A1**

(51) International Patent Classification:

B60T 8/176 (2006.01) B64C 25/46 (2006.01)

(21) International Application Number:

PCT/NO2005/000116

(22) International Filing Date: 8 April 2005 (08.04.2005)

(25) Filing Language: Norwegian

(26) Publication Language: English

(30) Priority Data:

20041541 15 April 2004 (15.04.2004) NO

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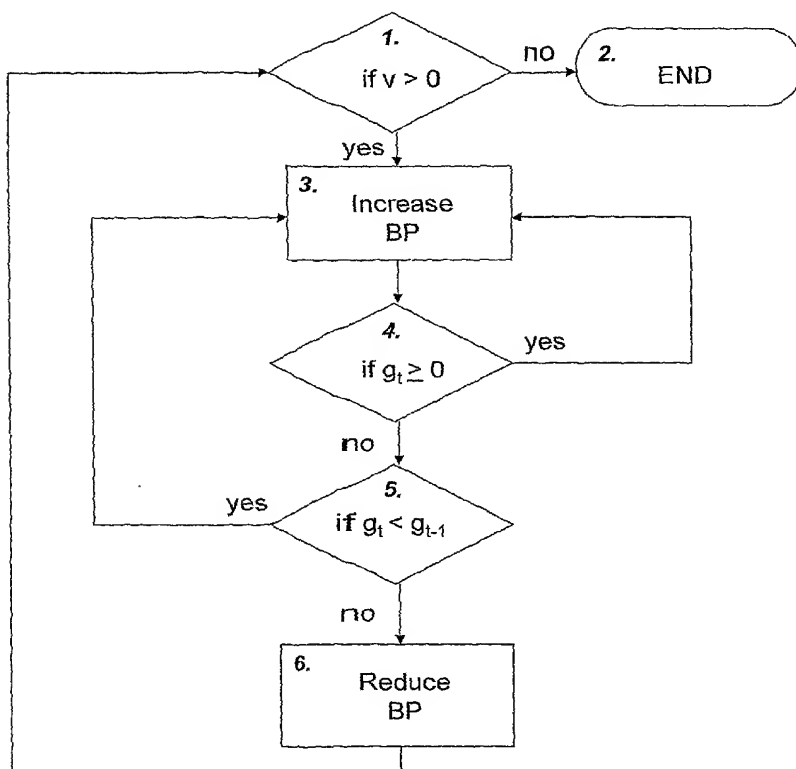
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Terasse 6C, N-3400 Lier (NO).(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,  
MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM,  
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,  
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,  
YU, ZA, ZM, ZW.(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: BRAKE FUNCTION BASED ON CONTROLLING ACCORDING TO ACCELERATION



(57) Abstract: A brake controller function to optimally brake a wheel of a vehicle in motion, such as an aircraft. The brake pressure control self regulates by means of applying brake pressure in accordance with vehicle acceleration information and the change in acceleration over time in the horizontal plane. Vehicle acceleration and information about its change enable a brake pressure control function to determine the brake pressure associated with maximum obtainable retardation for a vehicle at that given point in time. By continuously monitoring acceleration change and detecting retardation pinnacles, the culmination and turning points of retardation, with their associated brake pressure, maximum braking ability is assured at any given time. By applying acceleration data in real time as a controls reference in a brake logic control function to increase or reduce brake pressure, such a brake control function will assure a brake pressure perfectly fit with net of all the forces that a vehicle is subjected to. It will ensure optimal brake level with respect the vehicle tire/pavement surface interface.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

**(88) Date of publication of the revised international search report:**

11 May 2006

**(15) Information about Correction:**

see PCT Gazette No. 19/2006 of 11 May 2006

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*